

## SEQUENCE LISTING

&lt;110&gt; NEUROGEN CORPORATION

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<120> METHODS FOR PREVENTING AND TREATING OBESITY IN PATIENTS WITH  
MC4 RECEPTOR MUTATIONS

&lt;130&gt; N02.2100PC

&lt;150&gt; 60/413,321

&lt;151&gt; 2002-09-25

&lt;160&gt; 1

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 1

Met	Val	Asn	Ser	Thr	His	Arg	Gly	Met	His	Thr	Ser	Leu	His	Leu	Trp
1				5					10					15	

Asn	Arg	Ser	Ser	Tyr	Arg	Leu	His	Ser	Asn	Ala	Ser	Glu	Ser	Leu	Gly
			20					25						30	

Lys	Gly	Tyr	Ser	Asp	Gly	Gly	Cys	Tyr	Glu	Gln	Leu	Phe	Val	Ser	Pro
		35					40					45			

Glu	Val	Phe	Val	Thr	Leu	Gly	Val	Ile	Ser	Leu	Leu	Glu	Asn	Ile	Leu
	50					55						60			

Val	Ile	Val	Ala	Ile	Ala	Lys	Asn	Lys	Asn	Leu	His	Ser	Pro	Met	Tyr
65					70					75					80

Phe	Phe	Ile	Cys	Ser	Leu	Ala	Val	Ala	Asp	Met	Leu	Val	Ser	Val	Ser
				85					90					95	

Asn	Gly	Ser	Glu	Thr	Ile	Val	Ile	Thr	Leu	Leu	Asn	Ser	Thr	Asp	Thr
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100	105	110
Asp Ala Gln Ser Phe Thr Val	Asn Ile Asp Asn Val	Ile Asp Ser Val
115	120	125
Ile Cys Ser Ser Leu Leu Ala Ser	Ile Cys Ser Leu Leu Ser	Ile Ala
130	135	140
Val Asp Arg Tyr Phe Thr Ile Phe Tyr Ala Leu Gln Tyr His Asn Ile		
145	150	155 160
Met Thr Val Lys Arg Val Gly Ile Ser Ile Ser Cys Ile Trp Ala Ala		
165	170	175
Cys Thr Val Ser Gly Ile Leu Phe Ile Ile Tyr Ser Asp Ser Ser Ala		
180	185	190
Val Ile Ile Cys Leu Ile Thr Met Phe Phe Thr Met Leu Ala Leu Met		
195	200	205
Ala Ser Leu Tyr Val His Met Phe Leu Met Ala Arg Leu His Ile Lys		
210	215	220
Arg Ile Ala Val Leu Pro Gly Thr Gly Ala Ile Arg Gln Gly Ala Asn		
225	230	235 240
Met Lys Gly Ala Ile Thr Leu Thr Ile Leu Ile Gly Val Phe Val Val		
245	250	255
Cys Trp Ala Pro Phe Phe Leu His Leu Ile Phe Tyr Ile Ser Cys Pro		
260	265	270
Gln Asn Pro Tyr Cys Val Cys Phe Met Ser His Phe Asn Leu Tyr Leu		
275	280	285
Ile Leu Ile Met Cys Asn Ser Ile Ile Asp Pro Leu Ile Tyr Ala Leu		
290	295	300
Arg Ser Gln Glu Leu Arg Lys Thr Phe Lys Glu Ile Ile Cys Cys Tyr		
305	310	315 320
Pro Leu Gly Gly Leu Cys Asp Leu Ser Ser Arg Tyr		
325	330	